Stage 1 DBPR Conclusion

Summary of Requirements

Disinfectants:

- Chlorine and Chloramines MRDL = 4.0 mg/L
- Chlorine Dioxide MRDL = 0.8 mg/L

Byproducts:

- TTHM MCL = 0.080 mg/L
- HAA5 MCL = 0.060 mg/L
- Chlorite MCL = 1.0 mg/L
- Bromate MCL = 0.010 mg/L



Precursors:

- RAA of TOC removal ratio ≥ 1.00
- Treatment Technique TOC Removal requirements depend on source water characteristics

	Monitoring Frequency	Monitoring Location
Chlorine & Chloramines	Same as TCR	Same as TCR
TTHM & HAA5	Quarterly/Annually during warmest water month	Location of Maximum Residence Time
DBP Precursors	Monthly	Source Water (alkalinity and TOC) & Treated Water (TOC)

	Monitoring Frequency	Monitoring Location
Chlorine & Chloramines	Same as TCR	Same as TCR
TTHM &	GW < 10,000:	Same as routine
HAA5	1 per 3 -year cycle in warmest water month	
	Subpart H 500 - 9,999 & GW * 10,000: annually	
DBP	1 set (3 samples) per	Same as routine
Precursors	Quarter	

	Monitoring Frequency	Monitoring Location
Chlorine & Chloramines	Same as TCR	Same as TCR
TTHM & HAA5	Quarterly	Same as routine
DBP Precursors	Not applicable	Not applicable

Chlorine & Chloramines	RAA of monthly averages calculated each quarter
TTHM & HAA5	RAA of quarterly averages calculated each quarter
DBP Precursors	Depends on criteria used to comply

Other Considerations

- · Changes to disinfection process
- Compliance with LT1ESWTR and other rules
- Monitoring plans
- Additional state requirements
 - State flexibility
- · Qualified operators
- Stage 2 DBPR

Additional Resources

U.S. EPA's Simple Tools for Effective Performance (STEP) Guide Series:

- Complying With the New Stage 1 Disinfectants and Disinfection Byproducts Rule: Version A
- Complying With the New Stage 1
 Disinfectants and Disinfection
 Byproducts Rule: Version B
- *These are currently under development



Additional Resources

Other Resources:

- The Stage 1 Disinfectants and Disinfection Byproducts Rule: What Does it Mean to You? (EPA 816-R-01-014)
- Microbial and Disinfection Byproduct Rules Simultaneous Compliance Guidance Manual (EPA 815-R-99-015)
- EPA website: M-DPB Rules: Implementation Activities http://www.epa.gov/safewater/mdbp/implement.html

Contact Information

Safe Drinking Water Hotline:

800-426-4791

Email Trainers:

sdwatraining@epa.gov (until October 24, 2003)

EPA Website:

http://www.epa.gov/safewater/